



Alpha Wire | 711 Lidgerwood Avenue, Elizabeth, NJ 07207
Tel: 1-800-52 ALPHA (25742), Web: www.alphawire.com

Customer Specification

PART NO. SPM1804

Construction

		Diameters (In)							
1) Component 1	4 X 1 COND								
a) Conductor	18 (19/30) AWG BC	0.050							
b) Insulation	0.016" Wall, Nom. PVC/ 0.005" Wall NYLON	0.092							
(1) Color Code	Alpha Wire Color Code F								
Cond	Color	Cond	Color	Cond	Color				
1	BLACK	3	RED						
2	WHITE	4	GREEN						
2) Cable Assembly	4 Components Cabled								
a) Twists:	4.0 Twists/foot (min)								
b) Core Wrap	Clear Mylar Tape, 25% Overlap, Min.								
3) Jacket	0.050" Wall, Nom.,PVC	0.326+-0.019							
a) Color(s)	GREEN								
b) Print	ALPHA WIRE-* P/N SPM1804 4C 18 AWG (0.963mm ²) SERIES SPM (UL) WTTCC 90C DRY/WET 1000V OR (UL) TC-ER 90C DRY/WET 600V DIR BUR SUN RES OR MTW 18 AWG FLEXING --- C(RU) AWM I/II A/B 105C 600V FT1 CE ROHS (DATE CODE) (SEQ FOOTAGE) * = Factory Code								

Applicable Specifications

1) UL		
a) Component 1	Unlisted Conductor	90°C Dry / 90°C Wet / 600 V _{RMS}
b) Overall	UL 1277 TC	90°C Dry / 90°C Wet / 600 V _{RMS}
	UL 2277 WTTC	90°C Dry / 90°C Wet / 1000 V _{RMS}
	SUN RES	
	UL 1685 Vertical Tray Flame Test	
	UL 1063 MTW	90°C Dry / 60°C Wet / 600 V _{RMS}
	OIL RES I	
	DIRECT BURIAL	
	EXPOSED RUN	
2) CSA International	C(RU) AWM I/II A/B FT1	105°C / 600 V _{RMS}
3) Other		
a) Component 1	ASTM-B174 Class K	
4) CE:	EU Low Voltage Directive 2006/95/EC	

Environmental

1) EU Directive 2002/95/EC(RoHS):	All materials used in the manufacture of this part are in compliance with EU Directive 2002/95/EU regarding the restriction of use of certain hazardous substances in electrical and electronic equipment. Consult Alpha Wire's web site for compliance Date of Manufacture.
2) REACH Regulation (EC 1907/2006):	This product does not contain Substances of Very High Concern (SVHC) listed on the European Union's REACH candidate list in excess of 0.1% mass of the item. For up-to-date information, please see Alpha's REACH SVHC Declaration.

Properties

Physical & Mechanical Properties	
1) Temperature Range	-40 to 90°C(static), -30 to 90°C (dynamic)
2) Bend Radius	10X Cable Diameter
3) Pull Tension	60 Lbs, Maximum
4) Sunlight Resistance	Yes
5) Direct Burial	Yes
Electrical Properties	(For Engineering purposes only)
1) Voltage Rating	600/1000 V _{RMS}
2) Capacitance	29 pf/ft @1 kHz, Nominal Conductor to Conductor
3) Inductance	0.19 μ H/ft, Nominal
4) Conductor DCR	5.6 /1000ft @20°C, Nominal

Other

Packaging	Flange x Traverse x Barrel (inches)
a) Bulk(Made-to-order)	

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RoHS CERTIFICATE OF COMPLIANCE

To Whom It May Concern:

Alpha Wire Part Number: SPM1804

SPM1804, RoHS-Compliant Commencing With 8/24/2009 Production

*This document certifies that the Alpha part numbers cited above are manufactured in accordance with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003, better known as the RoHS Directives, with regards to restrictions of the use of certain hazardous substances used in the manufacture of electrical and electronic equipment. The reader is referred to these Directives for the specific definitions and extents of these Directives. **No Exemptions are required for RoHS Compliance on this item.***

Substance	Maximum Control Value
Lead	0.1% by weight (1000 ppm)
Mercury	0.1% by weight (1000 ppm)
Cadmium	0.01% by weight (100 ppm)
Hexavalent Chromium	0.1% by weight (1000 ppm)
Polybrominated Biphenyls (PBB)	0.1% by weight (1000 ppm)
Polybrominated Diphenyl Ethers (PBDE)	0.1% by weight (1000 ppm)
Including Deca-BDE	0.1% by weight (1000 ppm)

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Authorized Signatory for the Alpha Wire Company:

A handwritten signature in black ink, appearing to read "Dave Watson".

Mouser Electronics

Authorized Distributor

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